

EMS CATALOG NO: 14270-04  
EMS PRODUCT: JB-4  
Solution B  
DATE: 06/15/2006  
PAGE NUMBER: One of 4

MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Electron Microscopy Sciences assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

ELECTRON MICROSCOPY SCIENCES  
321 MORRIS ROAD  
P.O. BOX 251  
FORT WASHINGTON, PA 19034  
(215) 646-1566

24 HOUR EMERGENCY PHONE NUMBER  
CHEMTREC: (800) 424-9300

---

FOR PRODUCT AND SALES INFORMATION

---

CONTACT ELECTRON MICROSCOPY SCIENCES OFFICE ABOVE.

---

PRODUCT IDENTIFICATION

---

PRODUCT NAME: JB-4 Solution B  
FORMULA: Product is a mixture.

---

HAZARDOUS INGREDIENTS

---

COMPONENTS: N,N-Dimethylaniline

CASRN: [00121-69-7]

PERCENT: <10

THRESHOLD LIMIT VALUES:

OSHA-TWA  
ppm mg/m3  
5 25

OSHA-STEL  
ppm mg/m3  
10 5

---

PHYSICAL DATA

---

BOILING POINT (F): NE  
VAPOR PRESSURE: NE  
@ DEGREES  
VAPOR DENSITY: NE  
SOLUBILITY IN WATER: Complete  
APPEARANCE AND ODOR: Clear, viscous liquid; mild odor.  
% VOLATILE BY VOLUME: NE  
EVAPORATION RATE: NE  
(Butyl Acetate=1)  
SPECIFIC GRAVITY: NE  
MELTING POINT (C): NE

---

EXPLOSION AND FIRE HAZARD DATA

---

FLASH POINT: NE  
TEST MODE: NE  
FLAMMABLE LIMITS: LEL: NE UEL: NE

EXTINGUISHING MEDIA:

Water, carbon dioxide, dry chemical powder, foam.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters must wear self-contained breathing apparatus and fully protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

COMBUSTIBLE LIQUID. Do not put water directly on a fire of this product. Use the water to cool fire, heat containers.

N/A = Not Applicable NE = Not Established N/D = No Data

---

HEALTH HAZARD

---

N,N-DIMETHYLANILINE:  
TSCA INVENTORY:

Listed 1980. RTECS #BX4725000. OSHA-PEL(skin) 5ppm\25mg/m3  
ACGIH-TWA (skin) 5ppm\25mh/m3, STEL10pp\50mg/m3  
TXDS: orl-hmn: LDlo: 50ppm. USOS air: TWA 5ppm; skin.

**EFFECTS OF OVEREXPOSURE:**

N,N-Dimethylaniline is HIGHLY TOXIC, IRRITANT. Primary routes of entry are by inhalation, skin absorption and eye contact. Absorption into the body can lead to the formation of methemoglobin and possible cyanosis. Exposure can cause damage to the eyes, nausea, dizziness, headache, fatigue, increased pulse, fast labored breathing, cardiac arrest, convulsions, coma and death. Symptoms of cyanosis are blue coloration of the lips, nail-beds and eyelids.

**SKIN CONTACT:** Wash affected area with copious amounts of water.

**EYE CONTACT:** Flush eyes with water for at least 15 minutes.

**INHALATION:**

Remove to fresh air. Give oxygen or artificial respiration, as needed.

**INGESTION:** Get prompt medical treatment. Seek medical treatment if discomfort persists.

---

**REACTIVITY DATA**

---

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Heat and open flames.

**INCOMPATIBILITY:** Heat, oxidizing agents, acids and acid chlorides.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, oxides of nitrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** NE

---

**SPILL OR LEAK PROCEDURES**

---

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Absorb spill on sand or vermiculite. Scoop up and hold in a closed container for disposal. Wear a self-contained breathing apparatus, rubber gloves and rubber boots.

**WASTE DISPOSAL METHOD:**

Mix waste with a combustible carrier and burn in a suitably equipped chemical incinerator. Disposal must comply with Federal, State and local regulations.

---

SPECIAL PROTECTION INFORMATION

---

RESPIRATORY PROTECTION: OSHA/MHSA approved respirator.

VENTILATION: Mechanical ventilation recommended.

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Safety goggles.

OTHER PROTECTIVE EQUIPMENT: Safety shower and eye bath.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store material at 4oC. Keep storage container tightly closed.  
Avoid contact with skin and eyes. Do not inhale. Wash  
thoroughly after handling.